Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

What is claimed is:

1-16. (cancelled)

- (currently amended) <u>A method of providing Quality of Service (QoS)</u> <u>prioritization for wireless network stations in a network, said method</u> comprising:
 - establishing a priority polling list comprising an identifier for at

 least a first wireless network station for which

 communication priority is desired;
 - polling said priority polling list to determine whether said at least a

 first wireless network station identified on said priority

 polling list is ready to communicate on said network;
 - granting priority access to communicate over said network to said
 at least a first wireless network station, wherein said
 priority access gives said at least a first wireless network
 station priority over another wireless network station
 excluded from said priority polling list;

scheduling, wherein said scheduling compromises receiving

priority requests from stations and adding stations to said

priority polling list upon request:

The method of claim 16 further comprising a scheduler scheduling wherein said scheduler monitors scheduling compromises monitoring bandwidth availability; when bandwidth is available, said scheduler sends scheduling comprises sending a priority change notice to a station to indicate bandwidth is available and, upon acknowledgement from said station, increases increasing a priority level of said station to provide higher bandwidth to said station, when bandwidth is available.

18. (currently amended) A method of providing Quality of Service (QoS) prioritization for at least one wireless network station in a network, said method comprising:

providing a coordination function that controls access to a network

comprising wireless network stations, said controlled

access occurring during a contention-free period;

providing a polling list comprising identifiers for a first group of

said wireless network stations in said network;

providing a priority polling list comprising identifiers for a second
group of <u>said</u> wireless network stations in said network,
said second group consisting of stations for which
communication priority is desired;

polling <u>said wireless network</u> stations with identifiers included in said priority polling list to determine whether said <u>wireless</u> <u>network</u> stations in said second group have information to communicate: and

granting network communication access, through said coordination function, to <u>said wireless network</u> stations within said second group that have information to communicate.

- (previously presented) The method of claim 18 wherein said coordination function is a Point Coordination Function (PCF).
- (previously presented) The method of claim 18 wherein said coordination function controls access only during an intermittent contention-free period.
- 21. (currently amended) The method of claim 18 wherein stations on said polling list, but normally excluded from said priority polling list, are intermittently rotated into said priority polling list to prevent starvation.
- 22. (previously presented) The method of claim 18 wherein a multi-level priority hierarchy is established among stations within said priority polling list thereby granting more frequent access to higher priority stations.

23. (currently amended) A method of providing Quality of Service (QoS) prioritization for at least one wireless network station in a network, said method comprising:

providing a coordination function that controls access to a network comprising wireless network stations;

designating multiple priority levels for stations within a group of wireless network stations in said network for which communication priority is desired;

providing a multi-level priority polling list comprising identifiers

for said group of wireless network stations in said network

for which communication priority is desired, wherein

stations are ranked with differing priority levels and higher

priority stations are designated by listing their station

identifiers included in said priority polling list to determine;

determining whether said stations in said second group on said

priority polling list have information to communicate;

granting network communication access, through said coordination function, to said stations within said second group on said priority polling list that have information to communicate;

measuring characteristics of packets transmitted by a station to determine station bandwidth; and

adjusting the number of occurrences of a station identifier in said priority polling list so that higher priority stations have higher bandwidth.

- 24. (currently amended) An apparatus for providing Quality of Service (QoS) prioritization for wireless network stations in a network, said apparatus comprising:
 - a priority polling list comprising an identifier for at least a first

 wireless network station for which communication priority
 is desired:
 - a polling unit for polling stations on said priority polling list to
 determine whether said at least a first wireless network
 station identified on said priority polling list is ready to
 communicate on said network: and
 - a coordinator ecordination function for granting priority access to
 communicate over said network to said at least a first
 wireless network station, wherein said priority access gives
 said at least a first wireless network station priority over
 another wireless network station excluded from said
 priority polling list;
 - a bandwidth monitor for monitoring bandwidth availability;

a scheduler for scheduling, wherein said scheduling comprises
receiving priority requests from stations and adding stations
to said priority polling list upon request;
a priority manager for sending a priority change notice to a station
to indicate bandwidth is available and, upon
acknowledgement from said station, increasing a priority
level of said station to provide higher bandwidth to said
station, when bandwidth is available.